Notice of Allowability	Application No.	Applicant(s)
	10/605,446	TSENG, TAN
	Examiner	Art Unit
	Michael D. Masinick	2125
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>9/29/2005</u> .		
2. The allowed claim(s) is/are 1.3-20 and 26.		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All  b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have been received.</li> </ul>		
2.  Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. ☑ Notice of References Cited (PTO-892)	<del></del>	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9/30/03, 1/2/2004		
4.   Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	

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## **DETAILED ACTION**

- 1. Claims 1, 3-20, and 26 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:
- 3. Applicant's invention is a grouping of known technologies into a new and useful invention for recreating a 3D object. It is known to be able to capture 3D details of a subject and use a milling machine to recreate the subject. This can be seen in the art applicant has filed in their IDS and there are numerous companies providing this service. It is also known to use vacuum forming to recreate the surface of a 3D object by melting a plastic sheet over an already formed 3D object. However, the examiner feels that the combination of these two technologies into a single system to recreate a 3D object with extra detail by printing the two dimensional object onto a plastic sheet while milling a three dimensional version of the object taken from the same angle would not have been obvious to one skilled in the art.
- 4. While U.S. Patent Number 5,667,747 to Harding et al shows vacuum forming a plastic sheet into 3D details to recreate the 3D images, neither this reference taken alone or in combination with the prior art of record disclose using 3D details from a geometry file to mill the 3D figure prior to the melting of the plastic sheet. Harding also does not show the printing of the sheet, but instead uses pre-printed artwork sheets and uses the same mold for a plurality of sheets. It is this 3D Milling step combined with the vacuum molding of a printed image, in combination with the remaining elements and features of the invention, that the applicant's invention defines over the prior art of record.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael D. Masinick whose telephone number is (571) 272-3746. The examiner can normally be reached on Mon-Fri, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard can be reached on (571) 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MDM, November 15, 2005

LEO PICARD
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100